

Female Disconnect for Thin Wire Applications

Applications:

Customers that use TEFLON* and other thin insulation wires

Customer Concern:

A manufacturer of wire harness assemblies was experiencing crimp failures when using wire with reduced insulation thickness. When the reduced wire insulation thickness was inserted into the crimp zone, the insulated section went past the wire funnel and through the crimp zone resulting in poor terminations and improper electrical connections.

Panduit Solution:

Female Disconnect for Thin Wire Applications

Panduit engineered a new solution to restrict the thin insulation thickness from entering the crimp zone of the barrel. The solution does not require new tooling for installation and is available for both loose piece and reel fed applications.

Application Considerations:

This product is not recommended with wire that uses standard insulation thicknesses.



Female Disconnect for Thin Wire Applications (on the left)

Standard Female Disconnect (on the right)

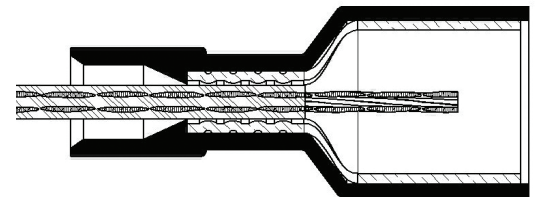


Fig.1. Cross Section View of Standard Female Disconnect with Thin Insulated Wire Inserted in Crimp Barrel

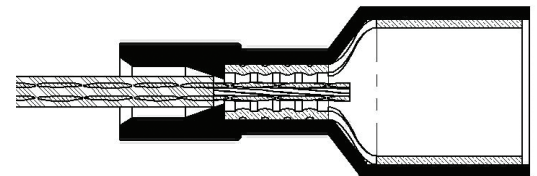
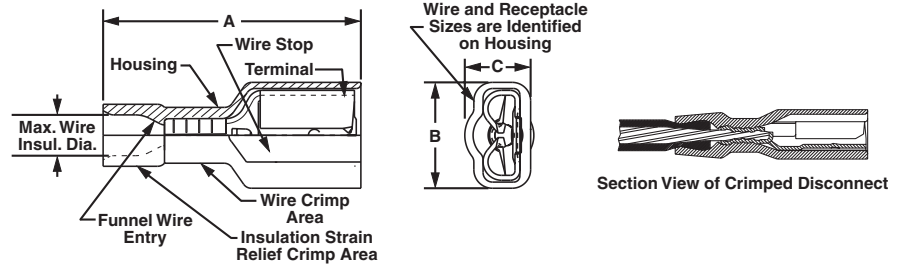
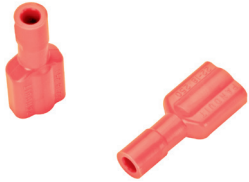


Fig. 2. Cross Section View of Insulation Restriction Female Disconnect with Thin Insulated Wire Prohibited from Entering Crimp Barrel

*TEFLON is a registered trademark of E.I. du Pont de Nemours and Company.

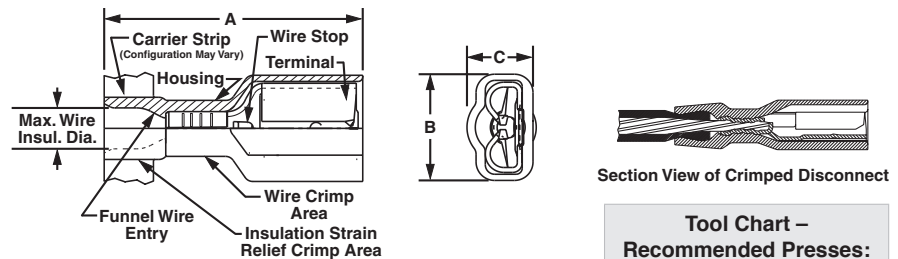
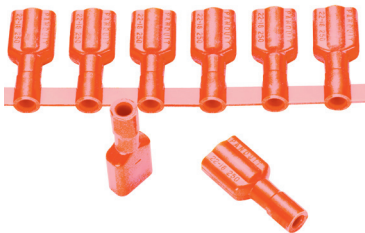
Female Disconnect for Thin Wire Applications

Loose Piece



Part Number	Tab Size In. (mm)	Wire Range AWG (mm ²)	Color	Max. Wire Insul. Dia. In. (mm)	Dimensions In. (mm)			Crimp Tools
					A ± 0.03 (0.8)	B ± 0.01 (0.3)	C ± 0.01 (0.3)	
DPF18-205FIBR-C	0.205/0.187 x .032 (5.2/4.8 x 0.8)	22 – 18 (0.5 – 1.0)	Red	0.106 (2.69)	0.78 (19.8)	0.31 (7.9)	0.22 (5.6)	CT-1525
DPF18-206FIBR-C	0.205/0.187 x 0.020 (5.2/4.8 x 0.5)	22 – 18 (0.5 – 1.0)	Red	0.106 (2.69)	0.78 (19.8)	0.31 (7.9)	0.22 (5.6)	
DPF18-250FIBR-C	0.250 x 0.032 (6.3 x 0.8)	22 – 18 (0.5 – 1.0)	Red	0.106 (2.69)	0.84 (21.3)	0.35 (8.9)	0.22 (5.6)	

Reel-Fed



Tool Chart – Recommended Presses:
CP-871 (UC200)

Part Number	Tab Size In. (mm)	Wire Range AWG (mm ²)	Color	Max. Wire Insul. Dia. In. (mm)	Dimensions In. (mm)			CA-800/CA9 Applicator Die Inserts
					A ± 0.03 (0.8)	B ± 0.01 (0.3)	C ± 0.01 (0.3)	
DPF18205FIBR-3K	0.205/0.187 x .032 (5.2/4.8 x 0.8)	22 – 18 (0.5 – 1.0)	Red	0.106 (2.69)	0.84 (21.3)	0.31 (7.9)	0.22 (5.6)	CD-800-10 CD9-10A
DPF18206FIBR-3K	0.205/0.187 x 0.020 (5.2/4.8 x 0.5)	22 – 18 (0.5 – 1.0)	Red	0.106 (2.69)	0.84 (21.3)	0.31 (7.9)	0.22 (5.6)	
DPF18250FIBR-3K	0.250 x 0.032 (6.3 x 0.8)	22 – 18 (0.5 – 1.0)	Red	0.106 (2.69)	0.84 (21.3)	0.35 (8.9)	0.22 (5.6)	

Notes:

- Used For:
 - 600 V maximum voltage rating
 - 221°F (105°C) maximum temperature rating
 - Stranded copper wire only
 - 6 – 12 lbs. initial insertion/withdrawal force
- RoHS compliant
- Material:
 - Stamping – CDA 260 brass, tin-plated
 - Housing premium grade nylon for superior strain relief insulation crimping
- Dimensions in brackets are in mm or mm²
- Package qty: -C = 100 pcs.,
3K = 3000 pcs./reel

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Markham, Ontario
cs-cdn@panduit.com
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